[BiFrunze](http://www.pbinfo.ro/?pagina=probleme&id=675)

#include <fstream>

using namespace std;

int st[1001],dr[1001],n;

ifstream fin("bifrunze.in");

ofstream fout("bifrunze.out");

int main()

{

int i,v;

fin>>n;

for(i=1;i<=n;i++)

fin>>v>>st[i]>>dr[i];

for(i=1;i<=n;i++)

if(st[i]+dr[i]==0)

fout<<i<<' ';

return 0;

}

### [Preordine](http://www.pbinfo.ro/?pagina=probleme&id=670)

#include <fstream>

using namespace std;

int st[1001],dr[1001],n,v[1001];

ifstream fin("preordine.in");

ofstream fout("preordine.out");

void preord(int r)

{

if(r)

{

fout<<v[r]<<' ';

preord(st[r]);

preord(dr[r]);

}

}

int main()

{

int i,s=0,r;

fin>>n;

for(i=1;i<=n;i++)

{

fin>>v[i]>>st[i]>>dr[i];

s=s+st[i]+dr[i];

}

if(n%2==0)r=n/2\*(n+1);

else r=(n+1)/2\*n;

r=r-s;

preord(r);

return 0;

}

### [Inordine](http://www.pbinfo.ro/?pagina=probleme&id=671)

#include <fstream>

using namespace std;

ifstream fin("inordine.in");

ofstream fout("inordine.out");

int st[1001],dr[1001],x[1001];

int r,s;

void SRD(int r)

{

if(r!=0)

{

SRD(st[r]);

fout<<x[r]<<' ';

SRD(dr[r]);

}

}

int main()

{

int n,i;

fin>>n;

for(i=1; i<=n; i++)

{

fin>>x[i]>>st[i]>>dr[i];

s=s+st[i]+dr[i];

}

r=n\*(n+1)/2-s ;

SRD(r);

return 0;

}

### [Postordine](http://www.pbinfo.ro/?pagina=probleme&id=672)

#include <fstream>

using namespace std;

ifstream fin("postordine.in");

ofstream fout("postordine.out");

int st[1001],dr[1001],x[1001];

int r,s;

void SDR(int r)

{

if(r!=0)

{

SDR(st[r]);

SDR(dr[r]);

fout<<x[r]<<' ';

}

}

int main()

{

int n,i;

fin>>n;

for(i=1; i<=n; i++)

{

fin>>x[i]>>st[i]>>dr[i];

s=s+st[i]+dr[i];

}

r=n\*(n+1)/2-s ;

SDR(r);

return 0;

}

### [DifSub](http://www.pbinfo.ro/?pagina=probleme&id=673)

#include <fstream>

using namespace std;

ifstream fin("difsub.in");

ofstream fout("difsub.out");

int n, st[1001], dr[1001], v[1001];

void citire()

{

fin >> n;

for ( int i=1; i<=n; i++ )

fin >> v[i] >> st[i] >> dr[i];

}

int suma(int x)

{

if ( x == 0 )

return 0;

int s1, s2;

s1=suma(st[x]);

s2=suma(dr[x]);

return s1+s2+v[x];

}

int radacina()

{

int s=0, i, rad;

for ( i=1; i<=n; i++ )

s=s+st[i]+dr[i];

rad=n\*(n+1)/2-s;

return rad;

}

int main()

{

citire();

int r=radacina();

int dif=suma(st[r])-suma(dr[r]);

if ( dif < 0 )

dif=-dif;

fout << dif;

}

### [CountSub](http://www.pbinfo.ro/?pagina=probleme&id=674)

#include <iostream>

#include <fstream>

#define nmax 1005

using namespace std;

int n,rad;

int info[nmax],s[nmax],d[nmax],nr=0;

void numara(int rad)

{

if(s[rad])

{

nr++;

numara(s[rad]);

}

if(d[rad])

{

nr++;

numara(d[rad]);

}

}

void citire()

{

int x,k;

cin>>n;

for(int i=1; i<=n; i++)

cin>>info[i]>>s[i]>>d[i];

cin>>k;

for(int i=1; i<=k; i++)

{

nr=1;

cin>>x;

numara(x);

cout<<nr<<'\n';

}

}

int main()

{

freopen("countsub.in","rt",stdin);

freopen("countsub.out","wt",stdout);

citire();

return 0;

}

### [CountPrimSub](http://www.pbinfo.ro/?pagina=probleme&id=676)

#include <iostream>

#include <fstream>

#define nmax 1005

using namespace std;

int n,rad;

int info[nmax],s[nmax],d[nmax],nr=0;

bool prim(int x)

{

if(x<2)

return 0;

if(x%2==0)

if(x==2)

return 1;

else

return 0;

for(int d=3;d\*d<=x;d+=2)

if(x%d==0)

return 0;

return 1;

}

void numaraprim(int rad)

{

if(rad)

{

if(prim(info[rad]))

nr++;

numaraprim(s[rad]);

numaraprim(d[rad]);

}

}

void citire()

{

int x,k;

cin>>n;

for(int i=1; i<=n; i++)

cin>>info[i]>>s[i]>>d[i];

cin>>k;

for(int i=1; i<=k; i++)

{

nr=0;

cin>>x;

numaraprim(x);

cout<<nr<<'\n';

}

}

int main()

{

freopen("countprimsub.in","rt",stdin);

freopen("countprimsub.out","wt",stdout);

citire();

return 0;

}

### [NiveleBin](http://www.pbinfo.ro/?pagina=probleme&id=677)

#include <iostream>

#include <fstream>

#define nmax 1005

using namespace std;

int n,rad;

int info[nmax],s[nmax],d[nmax],nr=0,suma,viz[nmax];

void citire()

{

cin>>n;

for(int i=1; i<=n; i++)

{

cin>>info[i]>>s[i]>>d[i];

suma+=s[i];

suma+=d[i];

}

}

void parcurgere(int p,int nivel)

{

viz[p]=nivel;

if(s[p])

parcurgere(s[p],nivel+1);

if(d[p])

parcurgere(d[p],nivel+1);

}

int main()

{

freopen("nivelebin.in","rt",stdin);

freopen("nivelebin.out","wt",stdout);

int maxi=0,nr;

citire();

rad=n\*(n+1)/2-suma;

parcurgere(rad,1);

for(int i=1; i<=n; i++)

if(viz[i]>maxi)

maxi=viz[i];

cout<<maxi<<'\n';

for(int i=1; i<=maxi; i++)

{

nr=0;

for(int j=1; j<=n; j++)

if(viz[j]==i)

nr++;

cout<<nr<<' ';

}

return 0;

}